Mukesh Chowdary Karanam

📍 Warangal | ✉ mukeshbunnyk@gmail.com | 📞 7386910694 | 🌐 Portfolio

in Mukesh Chowdary Karanam | ⏣ MukeshKaranam

Education

National Institute of Technology Warangal, B.Tech in Mechanical Engineering Dec 2021 – May 2025
- GPA: 8.02/10
- Awarded a Minor Degree in Electronics and Communication Engineering upon successful completion of the required coursework and meeting the cumulative grade criteria.

Technologies

Languages: Python, C++, SQL, JavaScript

Technologies: HTML, CSS, Node.js, React.js, Express.js

Databases: PostgreSQL, MongoDB

Developer Tools: Git, Visual Studio Code

Work Experience

Research & Development Intern, Becton Dickinson(BD) – Bengaluru, India May 2024 – Jul 2024
- Ideated and developed cost innovation solutions for safety needles as part of Value Analysis and Value Engineering (VAVE), resulting in 30–40% material savings while maintaining quality and safety standards.
- Analyzed BD syringe sales data using Excel and SQL to improve forecasting and inventory management.
- Generated dashboards and reports tracking KPIs related to product cost, material usage, and sales trends.

Personal Projects

Audio Room Web Application ⏣
- Designed and developed a real-time audio room web application similar to Clubhouse, enabling seamless multi-user voice chat with features like room creation, moderation, and user roles.
- Tools used: CSS, React.js, Node.jsNode.js, Express.js,Express.js, GetStream.io API

Virtual Simon Game ⏣
- Developed an interactive Virtual Simon Game using JavaScript, implementing core logic for random color sequence generation, user input validation, and level progression to create a challenging and engaging gameplay experience.
- Tools Used: HTML, CSS, JavaScript

Medical Appointment Booking System ⏣
- Developed a full-stack Doctor Appointment System with role-based access for Admin, Doctors, and Patients, enabling secure user authentication, doctor application approval, appointment scheduling, profile management, and real-time appointment updates.
- Tools used: React.js, Node.js, Express.js, MongoDB, Tailwind CSS

Positions of Responsibility

Treasurer Aug 2022-May 2025

Mechanical Engineering Society (MES), *NIT Warangal*, Warangal

Additional Secretary Aug 2022-May 2024

Big Data, Analytics and Consulting Cell (BDAC), *NIT Warangal*, Warangal

Sports Secretary Aug 2023-May 2024

Badminton Club, *NIT Warangal*, Warangal